

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-650002	Application No. 10/777,820
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Collins et al.	
		Filing Date February 12, 2004	Group Art Unit 1654

## U.S. Patent Documents

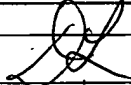
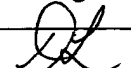
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
JL	AA	4,672,028	06/09/1987	Olson			
	AB	4,987,071	01/22/1991	Cech, et al.			
	AC	5,057,301	10/15/1991	Wilbur, et al.			
	AD	5,187,107	02/16/1993	Watkins, et al.			
	AE	5,736,392	04/07/1998	Hawley-Nelson, et al.			
	AF	5,879,465	03/09/1999	McKevitt, et al.			
	AG	6,004,533	12/21/1999	Collins, et al.			
	AH	6,056,973	05/02/2000	Allen, et al.			
	AI	6,093,701	07/25/2000	Wolff, et al.			
	AJ	6,153,737	11/28/2000	Manoharan, et al.			
	AK	6,159,502	12/12/2000	Russell-Jones, et al.			
	AL	6,159,734	12/12/2000	McKay, et al.			
	AM	6,165,789	12/26/2000	Monia, et al.			
	AN	6,183,723	02/06/2001	Seetharam, et al.			
	AO	6,221,397	04/24/2001	Russell-Jones, et al.			
	AP	6,274,564	08/14/2001	Sarill, et al.			
	AQ	6,291,184	09/18/2001	Gold, et al.			
	AR	6,395,492	05/28/2002	Manoharan, et al.			
	AS	6,806,363	10/19/2004	Collins, et al.			
	AT	6,838,073	01/04/2005	Collins, et al.			
JL	AU	7,067,552	06/27/2006	Holton, et al.			
	AV	7,141,233	11/28/2006	Collins, et al.			
	AW	7,179,445	02/20/2007	Collins, et al.			
JL	AX	2004/0162240	08/19/2004	Collins, et al.			
	AY	2005/0004010	01/06/2005	Collins, et al.			

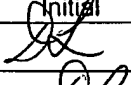
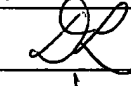
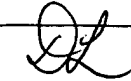
## Foreign Patent Documents or Published Foreign Patent Applications

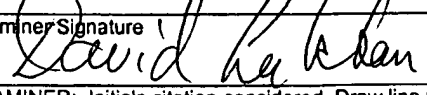
Examiner	Desig.	Document	Publication	Country or	Class	Subclass	Translation
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Examiner Signature <i>David L. K. Sam</i>	Date Considered 1-17-08
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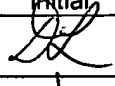





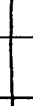
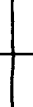

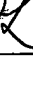


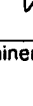


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							Yes	No
	AZ	WO2001/00646	01/04/2001	WIPO	C07H	21/04	X	
	AAA	WO2001/17694	03/15/2001	WIPO	B05D	5/08	Abst.	
	ABB	WO2001/53311	07/26/2001	WIPO	C07H	21/02	X	
	ACC	WO1999/65529	12/23/1999	WIPO	A61K	47/48	X	
	ADD	EP 0 220 030	06/19/1991	EPO	A61K	47/00	X	
	AEE	EP 506 242	12/09/1998	EPO	C07H	21/00	X	
	AFF	ES 2 088 364	01/10/1995	Spain	A23C	9/13		X

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AGG	Allen, "Human Vitamin B12 Transport Proteins," Progress in Hematology, 1975, 9:57-84
	AHH	Alvarez et al., "On a New Radiopharmaceutical for Kidney Imaging," International J. Applied Radiation and Isotopes, 1974, 25(6):283-283
	AII	Begley, et al., "Cobalamin Metabolism in Cultured Human Chorionic Villus Cells," J. Cell. Physiol., 1993, 156:43-47
	AJJ	Bernhauer et al., "Zur Chemie und Biochemie der Corrinioide," Biochem. Z, 1966, 344:289-309
	AKK	Blomquist, et al., "Uptake of Labelled Vitamin B12 and 4-Iodophenylalanine in some Tumours of Mice," Experientia, 1969, 25:294-296
	ALL	Breeman et al., "Indium-111 labeled DTPA- and DOTA-bombesin analogs for receptor scintigraphy and radiotherapy," in Scientific Papers (June 9, 1999), Proc. of the 46th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), J. Nuc.Med., 40(5):102P, Abstract no. 413 (May 1999 supplement)
	AMM	Cannon et al., "Synthesis and Uptake of a Radiolabeled Cobalamin Bioconjugate," 9th International Symposium on Recent Advances in Drug Delivery Systems, February, 1999, pp 230-231
	ANN	Cuoto, "Management of Complications of Cancer Chemotherapy," "Chemotherapeutic Agents Commonly used in Veterinary Medicine," Vet Clin North Am (Sm Anim), 1990; 20(4):1037-1053
	AOO	De Jong et al., "Radionuclide therapy using radiolabeled somatostatin analogs in tumor-bearing rats," in Scientific Papers (June 9, 1999), Proc. of the 46th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), J. Nuc.Med., 40(5):102, Abstract no. 414 (May 1999 supplement)
	APP	Fedosov et al., "Binding of Cobalamin and Cobinamide to Transcobalamin from Bovine Milk," Biochemistry, 1995, 34:16082-16087
	AQQ	Flodh, "Accumulation of Labeled Vitamin B12 in Some Transplanted Tumours," In: Distribution and Kinetics of Labeled Vitamin B12, Acta Radiologica, 1968, Supplementum 284, pp. 55-60
	ARR	Gennaro, Remington: The Science and Practice of Pharmacy, 1995, 19th Ed., Vol. 2, Mack Publishing Co., pp. 1527-1529, 1561
	ASS	Guy et al., "Evaluation of coupling of cobalamin to antisense oligonucleotides by thin-layer and reversed-phase liquid chromatography," J. Chromatog. B, 1998, 709:149-156

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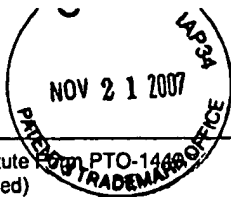
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ATT	Hogenkamp et al., "Diagnostic and Therapeutic Analogues of Cobalamin," Chemistry and Biochemistry of B12, Part II, Banerjee, ed., Wiley & Sons, Section 15:385-410
	AUU	Kaplan, et al., "Absorptions Studies of 59Fe and 58Co Vitamin B12 by Whole-Body Radiometry in the Radiation Therapy of Collum Carcinoma," Radiobiol. Radiother., 1983, 24, Abstract, 745
	AVV	Nielsen et al., "Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide," Science, 1991, 254:1497-1500
	AWW	Pinson et al., "Synthesis of Two Doxorubicin-Cobalamin Bioconjugates," 9th International Symposium on Recent Advances in Drug Delivery Systems, February 1999, pp. 228-229
	AXX	Pinson et al., "Synthesis, protein binding, and cellular uptake of doxorubicin - cobalamin bioconjugates," 219th Meeting of the American Chemical Society, San Francisco, California, March 26-30, 2000 (Abstracts of Papers of the American Chemical Society, (2000) Vol. 219, Nos. 1-2, Abstract
	AYY	Purdue University School of Veterinary Medicine, "Chemotherapy Drugs to Know," MCMP 611, Spring 1997, <a href="http://www.vet.purdue.edu/bms/courses/mcmp611/chmrx/drg2no61.htm">http://www.vet.purdue.edu/bms/courses/mcmp611/chmrx/drg2no61.htm</a> , accessed 11-14-2000
	AZZ	Russell-Jones et al., "Vitamin B 12 mediated oral delivery systems for granulocyte-colony stimulating factor and erythropoietin," Bioconjugate Chem., 1995, 6(4):459-46
	AAAA	Smeltzer et al., "Cytotoxicities of Two Cobalamin Bioconjugates," 9th International Symposium on Recent Advances in Drug Delivery Systems, February 1999, pp. 232-233
	ABBB	Soda et al., "Receptor Distribution and the Endothelial Uptake of Transcobalamin II in Liver Cell Suspensions," Blood, 1985, 65(4):795-802
	ACCC	Swanson et al., Pharmaceuticals in Medical Imaging, 1990, MacMillan Pub. Co., N.Y., pp. 621-628
	ADDD	Uchino et al., "Tissue Distribution of Coenzyme B12 in Rats Following Intravenous Administration," Annals of the New York Academy of Sciences, 1964, 112(Art. 2):844-854
	AEEE	Walker et al., "The chemical synthesis and nuclear magnetic resonance spectroscopy of adenosylcobalamin selectively enriched with carbon-13," Biochemistry, 1974, 13(12):2650-2655
	AFFF	Woolley, et al., "Uptake of [CO-57]-Vitamin B-12 By Murine Tumours of Many Histologic Types," Clinical Research, 1993, Abstracts of National Meeting, Association of American Physicians, p. 73A
	AGGG	Good et al., "Antisense inhibition of gene expression in bacteria by PNA targeted to mRNA" <u>Nature Publishing Group</u> , 1998
	AHHH	Wunderbaldinger et al. "New approaches for imaging in gene therapy" <u>Eur. J. of Radiology</u> , 2000, 34: 156-165

David Collins

1-17-08

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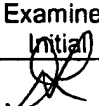
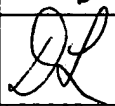
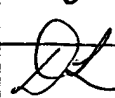
U.S. Patent Documents							
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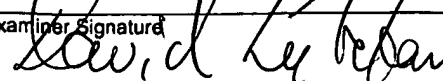
Foreign Patent Documents or Published Foreign Patent Applications								
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							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>DR</i>	AC	Akine et al., "Neutron-capture therapy of murine ascites tumor with gadolinium-containing microcapsules," J. Cancer Res Clin Oncol., 1992, 119:71-73
<i>DR</i>	AD	Anton et al., "Carbon-13 Nuclear Magnetic Resonance Studies of the Monocarboxylic Acids of Cyanocobalamin. Assignments of the b-, d-, and e-Monocarboxylic Acids," JACS, 1980, 102(7):2215-2219
	AE	Anton, et al., "The Synthesis and Properties of Four Spin-Labeled Analogs of Adenosylcobalamin," J. Biol. Chem., 1980, 255:4507-4510
	AF	Armitage et al., "Chemistry of the Vitamin B <sub>12</sub> Group Part III The Course of Hydrolytic Degradations" J. Chem. Soc., 1953, pgs. 3849-3864
	AG	Banerjee, Chemistry and Biochemistry of BSUB12/SUB, 1999, John Wiley & Sons, Inc. and in particular Part II, Section 15 of that book, entitled "Diagnostics and Therapeutic Analogues of Cobalamin," by Hogenkamp et al.
	AH	Chalet et al., "Biosynthesis of Radioactive Vitamin B <sub>12</sub> Containing Cobalt-60" Science, 1950, 111:601
	AI	Collins et al., "Tumor Imaging Via Indium 111-Labeled DTPA-Adenosylcobalamin," Mayo Clinic Proc., 1999, 74:687-691
	AJ	Cooper, et al., "Selective Uptake of Specifically Bound Cobalt-58 Vitamin B <sub>12</sub> by Human and Mouse Tumour Cells" Nature, 1961, 191:393-395
	AK	Cooperman, "Distribution of Radioactive and Nonradioactive Vitamin B <sub>12</sub> in Normal and Malignant Tissues of an Infant with Neuroblastoma," Cancer Research, 1972, 32:167-172
	AL	Cooperman, et al., "Distribution of Radioactive and Nonradioactive Vitamin B <sub>12</sub> in the Dog," J. Biol. Chem., 1960, 235:191-194
	AM	CTEP [Developing Cancer Therapies], "FDA Approved Anti-Cancer Drugs" (Jan. 1, 1997), at <a href="http://ctep.info.nih.gov/handbook/HandBookText/fda_agen.htm">http://ctep.info.nih.gov/handbook/HandBookText/fda_agen.htm</a> , accessed 11-14-2000.
	AN	Dolphin, "Preparation of the Reduced Forms of Vitamin B <sub>12</sub> and of Some Analogs of the Vitamin B <sub>12</sub> Coenzyme Containing a Cobalt-Carbon Bond" Methods in Enzymology, XVIII, 1971, 34-52
	AO	Ellenbogen, "Absorption and transport of cobalamin: Intrinsic factor and the transcobalamins," Cobalamin: Biochemistry and Pathophysiology, 1975, Chapter 5, Babior, Ed., Wiley, New York
<i>DR</i>	AP	Gottlieb et al., "Rapid Charcoal Assay for Intrinsic Factor (IF), Gastric Juice Unsaturated B <sub>12</sub> Binding Capacity, Antibody to IF, and Serum Unsaturated B <sub>12</sub> Binding Capacity" Blood, 1965, 25(6):875

Examiner Signature <i>David Ruben</i>	Date Considered <b>1-17-07</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AQ	Grossowicz et al., "Isotopic Determination of Vitamin B <sub>12</sub> Binding Capacity and Concentration" Proc. Exp. Biol., 1962, 109:604
	AR	CAPLUS abstract 1996:676214 of ES 2 088 364, 08-1996, to De La Iglesia Ferreras
	AS	Higashi et al., "In vitro assessment of 2-fluoro-2-deoxy-D-glucose, L-methionine and thymidine as agents to monitor the early response of a human adenocarcinoma cell line to radiotherapy," J. Nucl. Med., 1993, 34:773-779
	AT	Kubota et al., "Tracer feasibility for monitoring tumor radiotherapy: a quadruple tracer study with fluorine-18-fluorodeoxyglucose or fluorine-18-fluorodeoxyuridine, L-[methyl-14C]methionine, [6-3H]thymidine, and gallium-67," J. Nucl. Med., 1991 32: 2118-2123
	AU	Louisiana State University Cancer Treatment Center, "Chemotherapeutic Agents Commonly used in Veterinary Medicine", <a href="http://www.vetmed.lsu.edu/oncology/Chemotherapy.htm">http://www.vetmed.lsu.edu/oncology/Chemotherapy.htm</a> , accessed 11-14-2000.
	AV	Masiakowski et al., "Gadolinium neutron capture therapy for brain tumors: A computer study," Med Phys., 1992, 19(5):1277-1284
	AW	McLean et al., "Antibodies to Transcobalamin II Block In Vitro Proliferation of Leukemic Cells," Blood, 1997, 89(1):235-242
	AX	Ruiz et al., "Influence of Average Molecular Weights of Poly(DL-Lactic Acid-Co-Glycolic Acid) Copolymers 50/50 on Phase Separation and in Vitro Drug Release from Microspheres" Pharmaceutical Research, 1990, 9:928-934
	AY	Primus, "Bispecific antibody mediated targeting of nido-carboranes to human colon carcinoma cells," Bioconjugate Chemistry, 1996, 7:532-535
	AZ	Registry file record for RN 13870-90-1: compound cited in ES 2 088 364, 08-1996, to De La Iglesia Ferreras
	AAA	Shih and Brugger, "Gadolinium as a neutron capture therapy agent," Med. Phys., 1992, 19:733-744
	ABB	Svanvik et al., "Light-Up Probes: Thiazole Orange-Conjugated Peptide Nucleic Acid for Detection of Target Nucleic Acid in Homogeneous Solution" Analytical Biochemistry, 2000, 281:26-35
	ACC	The Merck Index An Encyclopedia of Chemicals, Drugs, And Biologicals, 1989, Eleventh Edition Budavari et al., Eds., p. 1577
	ADD	The Merck Index An Encyclopedia of Chemicals, Drugs, And Biologicals, 1996, Twelfth Edition Budavari et al., Eds., p. 1710
	AEE	van Eijkeren et al., "Measurement of Short-Term <sup>11</sup> C-Thymidine Activity in Human Head and Neck Tumours Using Positron Emission Tomography (PET)" Acta Oncologica, 1992, 31:539
	AFF	Vares, et al., "Kinetic of <sup>57</sup> Co-Cyanocobalamin Distribution in Organs and Tissues of Mice with Transplanted Tumours," Eksp. Onkol., 1986, 8:33-36, Abstract
	AGG	Wierzbecki et al., "Measurement of augmentation of <sup>252</sup> Cf implant by <sup>10</sup> B and <sup>157</sup> Gd neutron capture," Med Phys., 1994, 21(6):787-790
	AHH	Yamada et al., "The Synthesis of a 5'-Deoxyadenosylcobalamin-agarose Adsorbent and Its Utility in the Purification of Ribonucleotide Reductase" J. Biol. Chem., 1972, 247:6266
	AII	Yong, "In Vitro and in Vivo Evaluation of o-Carboranylalanine as a Potential Boron Delivery Agent for Neutron Capture Therapy" Anticancer Research, Vol. 15, 1995, pgs. 2033-38.

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